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6319600

DOCUMENT-IDENTIFIER:

US 6319600 B1

TITLE:

Fluoropolyether topcoat lubricants

DATE-ISSUED:

November 20, 2001

INVENTOR-INFORMATION:

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STATE ZIP CODE C CITY CA N/A N San Jose N

San Jose

CA N/A

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ZIP CODE COUNTRY STATE

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APPL-NO:

09/ 082967

DATE FILED:

May 22, 1998

PARENT-CASE:

RELATED APPLICATION

This application claims priority from provisional patent application Ser. No. 60/053,840 filed Jul. 25, 1997, entitled "FRACTIONATED NONFUNCTIONAL PERFLUOROPOLYETHERS FOR LUBRICATION OF LOW ROUGHNESS MEDIA AT LOW LUBRICANT THICKNESS" the entire disclosure of which is herein incorporated by reference.

INT-CL:

[07] B01D003/00,B32B027/00 ,G11B005/00

US-CL-ISSUED:

428/336, 428/421 , 428/422 , 428/694TF , 203/99

US-CL-CURRENT:

428/336, 203/99 , 428/421 , 428/422 , 428/694TF

FIELD-OF-SEARCH: 428/694TF; 428/921; 428/422; 428/336; 203/99

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO ISSUE-DATE PATENTEE-NAME

5292585

March 1994

Ohnuki et al.

5562965

October 1996

Gui et al.

5741577

April 1998

Yamamoto et al.

6099937

August 2000

Gui et al.

OTHER PUBLICATIONS

Del Pesco, T., "Perfluoroalkylpolyethers", CRC Handbook of Lubrication and Tribology, vol. III, Bosser, E.R., Ed., CRC Press, Boca Raton, Florida, U.S., 1994, pp. 287-303.

L. H. Sperling, Introduction to Physical Polymer Science, 2nd Ed., pp. 78-79, 1992.

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EjEAST Browser-Lb: (15) 4 and 5 [US 20020044523] Tag: S [Doc: 15/16 | "Fall" 1/26 (Fotal Images 25)
File - Edit - Yew - Tools - Window - Help - 20 2001-622136 DERWENT-ACC-NO: DERWENT-WEEK: 200228 COPYRIGHT 1999 DERWENT INFORMATION LTD TITLE: Rewritable optical disk header section whose hei ----- KWIC -----US 20020044 523A1 Basic Abstract Text - ABTX (1): (19) United States NOVELTY - The disk has a header section who (12) Patent Application Publication (10) Pub. No.: US 2002/0044523 A1 of the land. Apr. 18, 2002 Oshima et al. (43) Pub. Date: (54) OPTICAL RECORDING MEDIUM Publication Classification (51) Int. C1. G11B 3/68 (52) U.S. C1. 3667279 (76) Inventors: Nortaki Oshbus, Yokohama-shi (IP);
Hideki Osno, Yunezawa-shi (IP);
Takashi Tanignohi, Sagambara-shi
(IP); Ketichiro Nishizawa,
Yokohama-shi (IP) Basic Abstract Text - ABTX (3): ADVANTAGE - Timing of signal is effectively ABSTRACT and land because of their height differences. (37) An optical recording medium comprising at lesss a land and a groove where information-recording/reproducing is carried out by a flying type optical band. The optical recording medium laceps the flying height of the flying optical head coessant in the entire region of the recording/reproducing area, and is provided with at least one characteristic among the following characteristics: IP which is dependent on land and groove parameters and the flying height satisfies the relation of 1-bRy 0.1H; centralines met roughness Rs is to the range of 0.2 mm Rs 2.0 mm, and the layer thickness of a liquid labelcam layer satisfies the relation of T Rs; the relation of the Spinistic and ARpS-M/16NA which is despendent on the effective numerical spersure, laser wavelength and surface parameter is a satisfied where all parameters in the formula are defined in the specification; and the height of a header area is different from the height of a land portion. dence Address Comespooders Address: Sughrue, Mion, Zinn Macpeak & Seas, Filc 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213 (US) Title - TIX (1): Rewritable optical disk for use with compu (21) Appl. No.: 09/777.686 height is different from that of land (22) Piled: Feb. 7, 2001 Foreign Application Priority Data (30) Feb. 8, 2000 Mar. 3, 2000 Mar. 31, 2000 8888 JP 2000-035655 JP 2000-063375 JP 2000-101309 Standard Title Terms - TTX (1): REWRITING OPTICAL DISC COMPUTER HEADER SEC JP 2000-174217 13 FLYING OPTICAL HEAD 12 LAND 14 FLYING HEIGHT H CENTERLINE (8) 11 GROOVE ACTOR OF THE PROPERTY OF THE P